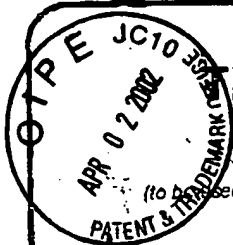


Please type a plus sign (+) inside this box → ☐

PTO/SB/21 (08-00)
Approved for use through 10/31/2002. OMS 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMS control number.



TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

4

Application Number

10/072,282

Filing Date

02/11/2002

First Named Inventor

Sunil Dhuper

Group Art Unit

Examiner Name

Attorney Docket Number

ENCLOSURES (check all that apply)

☒ Fee Transmittal Form

☒ Fee Attached

☐ Amendment / Reply

☐ After Final

☐ Affidavits/declaration(s)

☐ Extension of Time Request

☐ Express Abandonment Request

☒ Information Disclosure Statement

☐ Certified Copy of Priority Document(s)

☐ Response to Missing Parts/Incomplete Application

☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

☐ Assignment Papers (for an Application)

☐ Drawing(s)

☐ Licensing-related Papers

☐ Petition

☐ Petition to Convert to a Provisional Application

☐ Power of Attorney, Revocation Change of Correspondence Address

☐ Terminal Disclaimer

☐ Request for Refund

☐ CD, Number of CD(s) _____

☐ After Allowance Communication to Group

☐ Appeal Communication to Board of Appeals and Interferences

☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)

☐ Proprietary Information

☐ Status Letter

☐ Other Enclosure(s) (please identify below):

Remarks

TITLE:

ENDOTRACHEAL TUBE WITH AEROSOL
DELIVERY APPARATUS

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm
or
Individual name

Sunil Dhuper

Signature

Date

3-27-2002

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 3-27-2002

Typed or printed name

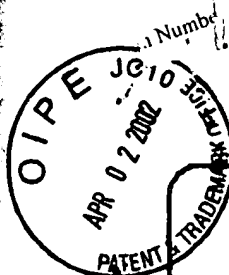
Sunil Dhuper

Signature

Date

3-27-2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



3761

Approved for use through 10/31/2002 OMB 0651-0032
U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)
180

Complete if Known	
Application Number	10/072,282
Filing Date	02/11/2002
First Named Inventor	Sunil Dhuper
Examiner Name	
Group Art Unit	
Attorney Docket No.	

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number: _____
Deposit Account Name: _____

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	150	214	90	Provisional filing fee	
SUBTOTAL (1) (\$)					

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Extra Claims Fee from below Fee Paid

Total Claims: _____ - 20** = _____ X _____ = _____

Independent Claims: _____ - 3** = _____ X _____ = _____

Multiple Dependent: _____ X _____ = _____

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
109	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2) (\$)					

** or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or cash	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for or parts reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	250	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,250	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Sheet	180
381	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
140	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify): _____					
* Reduced by Basic Filing Fee Paid					
SUBTOTAL (3) (\$)					180

SUBMITTED BY

Name (Print type)	Sunil Dhuper	Registration No. (Name/Agent)		Telephone	(516) 626-3439
Signature		Date	3-27-2002		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

04/05/2002 GGBREGI 00000025 10072282

01 FC:126

180.00 OP

The following additional information regarding our invention titled ' Endotracheal Tube With Aerosol Delivery Apparatus' pertains to

(I)Variety of materials that can be used in manufacturing this device.

(II) Additional variables to be considered during manufacturing this device.

(I) MATERIALS:

There are hundreds of varieties of plastic materials that can be used to manufacture the Endotracheal tube (ET tube), though the most common is Polyvinyl Chloride (PVC). Various materials that we have worked with are thermoplastic (polyvinyl chloride, polyethylene,polypropylene),silicone,or teflon.

Different materials have different co-efficient of resistance and hence can influence the flow of aerosol medication through the secondary cannulation. We have tested different materials mentioned above alone or in various permutations and combinations e.g.: PVC and teflon, PVC and polyethylene, silicone and teflon, silicone and PVC, etc..The ET tube could be made of PVC but the secondary cannulation of PVC could be the "housing" for Teflon cannulation.

Teflon or silicone may have better flow characteristics than some thermoplastic materials but teflon is too stiff and silicone too pliable for manufacturing ET tubes for patients. However using reinforcement of silicone ET tube with metal spring mesh could make it stiffer for patient use. Other alternatives being adjusting the thickness of the wall of the ET tube.

Also of note is that some materials are not compatible with each other based on different melting points. In such cases we have mechanically placed cannulas made of one material in the secondary cannulation made of a different material.

RECEIVED
APR 10 2002
3:00 PM
FBI

(II) ADDITIONAL VARIABLES:

- (1) The ET tube size (length and width) could vary depending on the patient (pediatric vs. adults)
- (2) The thickness of the wall could vary from 1mm to 3mm.
- (3) The secondary cannulation diameter can vary from .1mm to 1.25mm.
- (4) The secondary cannulation diameter can be uniform throughout, different in the proximal and distal parts, or uniform throughout with change only at the proximal and / or distal ends.